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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/589,551
		Filing Date	September 17, 2007
		First Named Inventor	Per-Ola Freskgard
		Art Unit	1634
		Examiner Name	Frank Wei Min Lu
Sheet	1 of 36	Attorney Docket Number	16828.0012FPWO

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	2002/0055125	05-09-2002	CHARYCH, et al.	
	2	2002/0081714	06-27-2002	JAIN, et al.	
	3	2002/0115068	08-22-2002	TOMLINSON, et al.	
	4	2002/0127598	09-12-2002	ZHOU, et al.	
	5	2002/0142335	10-03-2002	STRITTMATTER	
	6	2003/0004122	01-02-2003	BEIGELMAN et al.	
	7	2003/0050453	03-13-2003	SORGE	
	8	2003/0113738	06-19-2003	LIU, et al.	
	9	2003/0182068	09-25-2003	BATTERSBY, et al.	
	10	2003/0186233	10-02-2003	CHESNUT, et al.	
	11	2004/0049008	03-11-2004	PEDERSEN et al.	
	12	2004/0161741	08-19-2004	RABANI, et al.	
	13	2004/0185484	09-23-2004	COSTA, et al.	
	14	2004/0191812	09-30-2004	DAVYDOVA, et al.	
	15	2004/0197845	10-07-2004	HASSIBI, et al.	
	16	2004/0209282	10-21-2004	AULT-RICHE, et al.	
	17	2005/0042669	02-24-2005	LIU et al.	
	18	2005/0025766	02-03-2005	LIU et al.	
	19	2005/0130173	06-16-2005	LEAMON, et al.	
	20	2005/0142583	06-30-2005	LIU, et al.	
	21	2005/0158765	07-21-2005	MORGAN et al.	
	22	2005/0170376	08-04-2005	LIU, et al.	
	23	2006/0246450	11-02-2006	FRANCH, et al.	
	24	2006/0121470	06-08-2006	PEDERSEN	
	25	2006/0234231	10-19-2006	FRESKGARD, et al.	
	26	2006/0099592	05-11-2006	FRESKGARD, et al.	
	27	2006/0269920	11-30-2006	FRESKGARD, et al.	
	28	2006/0292603	12-28-2006	GOULIAEV, et al.	
	29	2007/0026397	02-01-2007	FRESKGARD, et al.	
	30	2007/0042401	02-22-2007	MORGAN et al.	
	31	2007/0224607	09-27-2007	MORGAN et al.	
	32	2008/0193983	08-14-2008	GOULIAEV, et al.	
	33	2008/0305957	12-11-2008	THISTED, et al.	
	34	2009/0035824	02-05-2009	LIU, et al.	

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Sheet	2 of 36	Attorney Docket Number	16828.0012FPWO

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	35	2009/0143232	06-04-2009	PEDERSEN, et al.	
	36	2009/0149347	06-11-2009	LIU, et al.	
	37	2009/0239211	09-24-2009	FRESKGARD, et al.	
	38	2009/0264300	10-22-2009	FRANCH, et al.	
	39	2010/0016177	01-21-2010	PEDERSEN, et al.	
	40	4,822,731	04-18-1989	WATSON, et al.	
	41	5,047,519	09-10-1991	HOBBS, Jr. et al.	
	42	5,449,613	09-12-1995	DORDICK, et al.	
	43	5,451,503	09-19-1995	HOGAN, et al.	
	44	5,473,060	12-05-1995	GRYAZNOV, et al.	
	45	5,474,796	12-12-1995	BRENNAN	
	46	5,476,930	12-19-1995	LETSINGER, et al.	
	47	5,503,805	04-02-1996	SUGARMAN, et al.	
	48	5,571,677	11-05-1996	GRYAZNOV	
	49	5,571,903	11-05-1996	GRYAZNOV	
	50	5,573,905	11-12-1996	LERNER, et al.	
	51	5,604,097	02-18-1997	BRENNER	
	52	5,635,400	06-03-1997	BRENNER	
	53	5,639,603	06-17-1997	DOWER, et al.	
	54	5,654,413	08-05-1997	BRENNER	
	55	5,656,739	08-12-1997	CUBICCIOTTI	
	56	5,663,046	09-02-1997	BALDWIN, et al.	
	57	5,665,975	09-09-1997	KEDAR	
	58	5,681,943	10-28-1997	LETSINGER, et al.	
	59	5,684,169	11-04-1997	HAMADA, et al.	
	60	5,686,243	11-11-1997	ROYER, et al.	
	61	5,708,153	01-13-1998	DOWER, et al.	
	62	5,723,320	03-03-1998	DEHLINGER	
	63	5,723,598	03-03-1998	LERNER, et al.	
	64	5,739,386	04-14-1998	HOLMES	
	65	5,741,643	04-21-1998	GRYAZNOV, et al.	
	66	5,763,175	06-09-1998	BRENNER	
	67	5,763,263	06-09-1998	DEHLINGER	
	68	5,770,358	06-23-1998	DOWER, et al.	

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		Art Unit	1634
		Examiner Name	Frank Wei Min Lu
Sheet	3 of 36	Attorney Docket Number	16828.0012FPWO

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	69	5,780,613	07-14-1998	LETSINGER, et al.	
	70	5,789,162	08-04-1998	DOWER, et al.	
	71	5,789,172	08-04-1998	STILL, et al.	
	72	5,804,563	09-08-1998	STILL, et al.	
	73	5,817,795	10-06-1998	GRYAZNOV, et al.	
	74	5,824,471	10-20-1998	MASHAL, et al.	
	75	5,830,658	11-03-1998	GRYAZNOV	
	76	5,840,485	11-24-1998	LEBL, et al.	
	77	5,843,650	12-01-1998	SEGEV	
	78	5,843,701	12-01-1998	GOLD, et al.	
	79	5,846,719	12-08-1998	BRENNER et al.	
	80	5,880,972	03-09-1999	HORLBECK	
	81	5,942,609	08-24-1999	HUNKAPILLER et al.	
	82	5,948,648	09-07-1999	KHAN, et al.	
	83	6,001,579	12-14-1999	STILL, et al.	
	84	6,056,926	05-02-2000	SUGARMAN, et al.	
	85	6,060,596	05-09-2000	LERNER, et al.	
	86	6,096,875	08-01-2000	KHAN, et al.	
	87	6,090,912	07-18-2000	LEBL, et al.	
	88	6,132,970	10-17-2000	STEMMER	
	89	6,140,489	10-31-2000	BRENNER	
	90	6,140,493	10-31-2000	DOWER, et al.	
	91	6,143,497	11-07-2000	DOWER, et al.	
	92	6,143,503	11-07-2000	BASKERVILLE, et al.	
	93	6,150,516	11-21-2000	BRENNER, et al.	
	94	6,165,717	12-26-2000	DOWER, et al.	
	95	6,165,778	12-26-2000	KEDAR	
	96	6,172,214	01-09-2001	BRENNER	
	97	6,197,555	06-03-2001	KHAN, et al.	
	98	6,207,446	03-27-2001	SZOSTAK, et al.	
	99	6,210,900	04-03-2001	YAMASHITA, et al.	
	100	6,232,066	05-15-2001	FELDER, et al.	

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	101	6,235,475	05-22-2001	BRENNER, et al.	
	102	6,235,889	05-22-2001	ULANOVSKY	
	103	6,248,568	06-19-2001	KHAN, et al.	
	104	6,274,385	08-14-2001	HOCHLOWSKI, et al.	
	105	6,287,765	09-11-2001	CUBICCIOTTI	
	106	6,297,053	10-02-2001	STEMMER	
	107	6,306,587	10-23-2001	ROYER, et al.	
	108	6,352,828	03-05-2002	BRENNER	
	109	6,416,949	07-09-2002	DOWER, et al.	
	110	6,429,300	08-06-2002	KURZ, et al.	
	111	6,479,264	11-12-2002	LOUWRIER	
	112	6,503,759	01-07-2003	STILL, et al.	
	113	6,514,736	02-04-2003	ERLICH, et al.	
	114	6,537,776	03-25-2003	SHORT	
	115	6,593,088	07-15-2003	SAITO, et al.	
	116	6,613,508	09-02-2003	NESS, et al.	
	117	6,620,584	09-16-2003	CHEE, et al.	
	118	6,620,587	09-16-2003	TAUSSIG, et al.	
	119	6,780,981	08-24-2004	SOUTHERN, et al.	
	120	6,936,477	08-30-2005	STILL, et al.	
	121	7,070,928	07-04-2006	LIU, et al.	
	122	7,413,854	08-19-2008	PEDERSEN, et al.	
	123	7,223,545	05-29-2007	LIU, et al.	
	124	7,442,160	10-28-2008	LIU, et al.	
	125	7,479,472	01-20-2009	HARBURY, et al.	
	126	7,491,494	02-17-2009	LIU, et al.	
	127	7,557,068	07-07-2009	LIU, et al.	
	128	7,704,925	04-27-2010	GOULIAEV, et al.	
	129	7,727,713	06-01-2010	PEDERSEN, et al.	
	130	7,771,935	08-10-2010	LIU, et al.	
	131	7,915,201	03-29-2011	FRANCH, et al.	
	132	7,998,904	08-16, 2011	LIU, et al.	

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	133	DE 196 42 751	04-23-1998	WIESLER, et al.	Abstract	√
	134	DE 196 46 372	06-19-1997	PSCHORR		
	135	EP 0324616	07-19-1989	ROYER, et al.		
	137	EP 0542770	05-26-1993	LAM, et al.		
	138	EP 0604552	07-06-1994	DOWER, et al.		
	139	EP 0695305	02-07-1996	LETSINGER, et al.		
	140	EP 0766826	04-09-1997	BALDWIN, et al.		
	141	EP 0773227	05-14-1997	DOWER, et al.		
	142	EP 0776330	06-04-1997	HOLMES		
	143	EP 0778280	06-11-1997	BALDWIN, et al.		
	144	EP 0879219	11-25-1998	HOCHLOWSKI, et al.		
	145	EP 0962527	12-08-1999	YANAGAWA, et al.		
	146	EP 1324045	07-02-2003	FODOR, et al.		
	147	EP 1402024	03-31-2004	PEDERSEN, et al.		
	148	EP 1483585	12-08-2004	NERI, et al.		
	149	EP 1514938	03-16-2005	ISHIKAWA, et al.		
	150	EP 1533385	05-25-2005	GLAD, et al.		
	151	EP 1828381	09-05-2007	RASMUSSEN		
	152	EP 1832567	09-12-2007	LIU, et al.		
	153	WO 1990/05785	1990-05-31	SCHULTZ		
	154	WO 1991/19818	12-26-1991	DOWER, et al.		
	155	WO 1992/00091	01-09-1992	LAM, et al.		
	156	WO 1994/08051	04-14-1994	STILL, et al.		
	157	WO 1994/13623	06-23-1994	ZUCKERMANN, et al.		
	158	WO 1994/24143	10-27-1994	LETSINGER, et al.		
	159	WO 1995/04160	02-09-1995	SOUTHERN, et al.		
	160	WO 1995/12608	05-11-1995	SUGARMAN, et al.		
	161	WO 1996/03418	02-08-1996	JANDA, et al.		

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	162	WO 1996/09316	03-28-1996	EATON, et al.		
	163	WO 1996/11878	04-25-1996	SCHULTZ, et al.		
	164	WO 1996/12014	04-25-1996	BRENNER		
	165	WO 1996/24847	08-15-1996	DUNNINGTON		
	166	WO 1996/35699	11-14-1996	LETSINGER, et al.		
	167	WO 1996/40201	12-19-1996	DESAI, et al.		
	168	WO 1997/11958	04-03-1997	KENT, et al.		
	169	WO 1997/19039	05-29-1997	MARZINZIK, et al.		
	170	WO 1997/27317	07-31-1997	LOCKHART, et al.		
	171	WO 1997/35198	09-25-1997	MORAN, et al.		
	172	WO 1998/47613	10-29-1998	WU, et al.		
	173	WO 1998/56904	12-17-1998	PAYAN, et al.		
	174	WO 1998/58256	12-23-1998	COLE, et al.		
	175	WO 1999/42605	08-26-1999	SCHWABACHER		
	176	WO 1999/51546	10-14-1999	JACOBSEN, et al.		
	177	WO 1999/51773	10-14-1999	KUMELIS, et al.		
	178	WO 1999/64378	12-16-1999	CARVER, et al.		
	179	WO 2000/21909	04-20-2000	DILLARD, et al.		
	180	WO 2000/23456	04-27-2000	HARBURY, et al.		
	181	WO 2000/24882	05-04-2000	SANDAL, et al.		
	182	WO 2000/40695	07-13-2000	ALEXANDROV, et al.		
	183	WO 2000/47775	08-17-2000	SZOSTAK, et al.		
	184	WO 2000/61775	10-19-2000	SERGEEV		
	185	WO 2001/00876	01-04-2001	MIRKIN, et al.		
	186	WO 2001/07657	02-01-2001	KURZ, et al.		
	187	WO 2001/53539	07-26-2001	WAGNER		
	188	WO 2001/56955	08-09-2001	SEPETOV, et al.		
	189	WO 2002/03067	01-10-2002	XIONG, et al.		
	190	WO 2002/074978	09-26-2002	LIU, et al.		

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		First Named Inventor	Per-Ola Freskgard
		Art Unit	1634
		Examiner Name	Frank Wei Min Lu
Sheet	7 of 36	Attorney Docket Number	16828.0012FPWO

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			
	191	WO 2002/083951	10-24-2002	GIESE		
	192	WO 2002/099078	12-12-2002	WINSSINGER, et al.		
	193	WO 2002/10186	02-07-2002	WOLD, et al.		
	194	WO 2002/102820	12-27-2002	PEDERSEN, et al.		
	195	WO 2002/40664	05-23-2002	NISHIGAKI, et al.	Abstract	√
	195	WO 2003/025567	03-27-2003	DÜBEL	Abstract	
	196	WO 2003/062417	07-31-2003	NEMOTO, et al.	Abstract	√
	197	WO 2003/076943	09-18-2003	NERI, et al.		√
	198	WO 2003/078050	09-25-2003	GOULIAEV, et al.		
	199	WO 2003/078625	09-25-2003	PEDERSEN, et al.		
	200	WO 2003/082901	10-09-2003	LYNN, et al.		
	201	WO 2003/106679	12-24-2003	HINE, et al.		
	202	WO 2004/001042	12-31-2003	FRESKGAARD, et al.		
	203	WO 2004/007529	01-22-2004	McLENDON, et al.		
	204	WO 2004/009814	01-29-2004	PEDERSEN, et al.		
	205	WO 2004/013070	02-12-2004	PEDERSEN		
	206	WO 2004/016767	02-26-2004	LIU, et al.		
	207	WO 2004/024929	03-25-2004	FRANCH, et al.		
	208	WO 2004/039962	05-13-2004	AULT-RICHE, et al.		
	209	WO 2004/042019	05-21-2004	AULT-RICHE, et al.		
	210	WO 2004/074429	09-02-2004	FRESKGAARD, et al.		
	211	WO 2004/074501	09-02-2004	FRESKGAARD, et al.		
	212	WO 2004/110964	12-23-2004	PEDERSEN, et al.		
	213	WO 2005/003778	01-13-2005	FRESKGAARD, et al.		
	214	WO 2005/026387	03-24-2005	THISTED, et al.		
	215	WO 2005/058479	06-30-2005	MORGAN, et al.		
	216	WO 2005/078122	08-25-2005	FRESKGAARD, et al.		
	217	WO 2005/090566	09-29-2005	GOULIAEV, et al.		
	218	WO 2005/116213	12-08-2005	LIU, et al.		
	219	WO 2006/048025	05-11-2006	HANSEN, et al.		
	220	WO 2006/079061	07-27-2006	LIU, et al.		
	221	WO 2006/053571	05-26-2006	RASMUSSEN		

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	222	WO 2006/069063	06-29-2006	COHEN, et al.		
	223	WO 2006/128138	11-30-2006	COULL, et al.		
	224	WO 2006/130669	12-07-2006	STERN, et al.		
	225	WO 2006/133312	12-14-2006	LIU, et al.		
	226	WO 2006/135654	12-21-2006	LIU, et al.		
	227	WO 2006/135786	12-21-2006	MORGAN, et al.		
	228	WO 2006/138560	12-28-2006	ROZENMAN, et al.		
	229	WO 2006/138666	12-28-2006	CALDERONE, et al.		
	230	WO 2007/008276	01-18-2007	COULL, et al.		
	231	WO 2007/011722	01-25-2007	LIU, et al.		
	232	WO 2007/016488	02-08-2007	BITTKER, et al.		
	233	WO 2007/053358	05-10-2007	MORGAN, et al.		
	234	WO 2007/062664	06-07-2007	FRANCH, et al.		
	235	WO 2007/124758	11-08-2007	VEST, et al.		
	236	WO 2008/014238	01-31-2008	CONDON		
	237	WO 2008/036273	03-27-2008	LANDSMAN, et al.		
	238	WO 2008/054600	05-08-2008	HUANG, et al.		
	239	WO 2009/018003	02-05-2009	HAFF, et al.		
	240	WO 2009/077173	06-25-2009	NERI, et al.		
	241	WO 2009/152824	12-23-2009	DYBRO LUNDORF, et al.		

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	242	ABRAVAYA et al. "Detection of point mutation with a modified ligase chain reaction (GAP-PCR)", <i>Nucleic Acids Research</i> , vol. 23, No. 4, 675-682 (1995).	
	243	ACEVEDO, et al., "Template-directed oligonucleotide ligation on hydroxylapatite", <i>Nature</i> , Vol. 321, pp. 790-792 (June 19, 1986).	
	244	ACEVEDO, et al., "Non-enzymatic Transcription of an Oligonucleotide 14 Residues Long", <i>J. Mol. Biol.</i> , Vol. 197, pp. 187-193 (1987).	
	245	ACINAS et al. "PCR-Induced Sequence Artifacts and Bias: Insights from Comparison of Two 16S rRNA Clone Libraries Constructed from the same Sample", <i>Applied and Environmental Microbiology</i> , vol. 71, No. 12, 8966-8969, (2005)	
	246	AGARWAL, et al. "Total Synthesis of the gene for an alanine transfer ribonucleic acid from yeast", Abstract only, <i>Nature</i> , 227, 27-34 (1970).	
	247	ALBAGLI, et al., "Chemical Amplification (CHAMP) by a Continuous, Self-Replicating Oligonucleotide-Based System", <i>J. Am. Chem. Soc.</i> , Vol. 121, pp. 6954-6955, (1999).	
	248	ANONYMOUS. "Preparing Oligonucleotides for Antisense Experiments", <i>Glen Research Report</i> , vol. 10, 3 (1997 - December issue).	
	249	ANONYMOUS. "Cytfectin GSV Transfection Protocol", <i>Glen Research Report</i> , vol. 10, 4-6 (1997 - December issue).	
	250	ANONYMOUS. "New Fluorescent Reagents - Tamra CPG, Fluorescein-dt", <i>Glen Research Report</i> , vol. 10, 7 (1997 - December issue).	
	251	ANONYMOUS. "Universal Support Replaces Individual Columns", <i>Glen Research Report</i> , vol. 10, 8 (1997 - December issue).	
	252	ANONYMOUS. "Q-Supports Reduce Cleavage Time to 2 Minutes", <i>Glen Research Report</i> , vol. 10, 9 (1997 - December issue).	
	253	ANONYMOUS. "5,6-Dihydro-Pyrimidines, 2'-Phosphoramidites", <i>Glen Research Report</i> , vol. 10, 11 (1997 - December issue).	
	254	ANONYMOUS. "Non-enzymatic Ligation of Single-Stranded and Duplex DNA", <i>Glen Research Report</i> , vol. 10, 12 (1997 - December issue).	
	255	ANONYMOUS. "More Novel Monomers -4-Thio-dU, 5'-Amino-dT, 2'-F-Pyrimidines", <i>Glen Research Report</i> , vol. 10, 10 (1997 -December issue).	
	256	ANONYMOUS. "DCI - A Logical Alternative Aviator", <i>Glen Research Report</i> , Vol. 10, No. 1 (1997).	

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	257	Australian Patents Act 1990-Section 32 Regulation 3.6, (Request for a Determination of Dispute between Applicants) and 3.7 Applications to Commissioner For Declaration of an Eligible Person.	
	258	BALDWIN, "Design, Synthesis and use of binary encoded synthetic chemical libraries", <i>Molecular Diversity</i> , 2, 81-88 (1996).	
	259	BALDWIN, JJ et al. "Synthesis of a Small Molecule Combinatorial Library Encoded with Molecular Tags", <i>J. Am. Chem. Soc.</i> 117, 5588-5589 (1995).	
	260	BARAN et al. "Total Synthesis of Marine natural products without using protecting groups", <i>Nature</i> , Vol. 446, 404-408 (2007).	
	261	BARANY, "Genetic disease detection and DNA amplification using cloned thermostable ligase", <i>Proc. Natl. Acad.</i> , Vol. 88, 189-193 (1991).	
	262	BARANY, F. "The ligase chain reaction in a PCR world", <i>Genome Res.</i> vol. 1, 5-16 (1991).	
	263	BARANY, F. "The TaqI star reaction: strand preferences reveal hydrogen-bond donor and acceptor sites in canonical sequence recognition", <i>Gene</i> vol. 65 149-165 (1988).	
	264	BATTERSBY, et al. "Optical encoding of microbeads for gene screening: alternatives to microarrays", <i>Drug Discovery Today</i> , Vol. 6, No. 12 (Suppl.), pp. S19-S26 (2001).	
	265	BAYER, E. et al. "Liquid Phase Synthesis of Peptides", <i>Nature</i> vol. 237; 30 (June 1972).	
	266	BENNER, "Expanding the genetic lexicon: incorporating non-standard amino acids into proteins by ribosome-based synthesis". <i>Trends in Biotechnology</i> , Vol. 12, No. 5, pp. 158-163 (May 1994).	
	267	BERGER, et al., "Universal bases for hybridization, replication and chain termination", <i>Nucleic Acids Research</i> , Vol. 28, No. 15, pp. 2911-2914 (2000).	
	268	BITTKER, et al. "Nucleic Acid Evolution and Minimization by Nonhomologous Random Recombination", <i>Nature Biotechnology</i> 20, 1024-1029 (2002).	
	269	BITTKER, et al., "Recent advances in the in vitro evolution of nucleic acids", <i>Current Opinion in Chemical Biology</i> , Vol. 6, No. 3, pp. 367-374 (2002).	
	270	BÖHLER, et al., "Template switching between PNA and RNA oligonucleotides", <i>Nature</i> , Vol. 376, pp. 578-581 (August 17, 1995)	
	271	BONORA, et al. "Large Scale, PEG-supported DNA Synthesis"; <i>Nucleosides & Nucleotides</i> , 10 (1-3), (1991).	

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	272	BORMAN, "Combinatorial chemists focus on small molecules, molecular recognition, and automation", <i>Chemical & Engineering News</i> , February 12, 1996.	
	273	BRAASCH, et al. "Locked nucleic acids (LNA): fine-tuning the recognition of DNA and RNA", <i>Elsevier, Chemistry & Biology</i> , 8, 1-7 (2001).	
	274	BRAUN, et al. "DNA-templated assembly and electrode attachment of a conducting silver wire". <i>Nature</i> , Vol. 391, pp. 775-778 (February 19, 1998).	
	275	BRENNAN, et al. "Using T4 RNA Ligase with DNA Substrates", <i>Methods in enzymology</i> , vol. 100, pp. 38-52.	
	276	BRENNER, et al. "Encoded combinatorial chemistry", <i>Proc Natl. Acad. Sci. USA</i> , Vol. 89, pp. 5381-5383 (June 1992).	
	277	BRUICK, et al., "A simple procedure for constructing 5' -amino terminated oligodeoxynucleotides in aqueous solution", <i>Nucleic Acids Research</i> , Vol. 25, No. 6, pp. 1309-10 (1997).	
	278	BRUICK, et al. "Template-directed ligation of peptides to oligonucleotides", <i>Chemistry & Biology</i> , Vol. 3, No. 1, pp. 49-56 (January 1996).	
	279	BULLER, F. et al., "Design and synthesis of a novel DNA-encoded chemical library using Diels-Alder cycloadditions", <i>Bioorg Med Chem Lett</i> 18, 5926 (2008).	
	280	BULLER, F. et al. "Discovery of TNF inhibitors from an DNA-encoded chemical library based on Diels-Alder cycloaddition", <i>Chem Biol</i> 16, 1075 (2009).	
	281	BULLER et al., "Drug Discovery with DNA-Encoded Chemical Libraries", <i>Bioconjugate Chem.</i> , Vol. 21 (9), pp. 1571-1580, (2010).	
	282	BUNIN et al., "[26] Synthesis and Evaluation of 1, 4-Benzodiazepine Libraries," <i>METHODS IN ENZYMOLOGY</i> , Vol. 267, pp. 448-465, (1996).	
	283	BUNIN, et al. "The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library", <i>PROC. NATL. ACAD. SCI. USA</i> , vol. 91, pp. 4708-4712 (May 1994).	
	284	BUSKIRK, et al. "Engineering a Ligand-Dependent RNA Transcriptional Activator", <i>Chem. Biol.</i> 11, 1157-1163 (2004), This work is featured in a Research Highlight in <i>Nature Methods</i> 1, 6-7 (2004).	
	285	CALDERONE, et al., "Nucleic-acid-templated synthesis as a model system for ancient translation", <i>Current Opinion in Chemical Biology</i> , Vol. 8, pp. 645-653 (2004).	
	286	CALDERONE, et al. "Directing Otherwise Incompatible Reactions in a Single Solution by Using DNA-Templated Organic Synthesis", <i>Angew. Chem. Int. Ed</i> , Vol. 41, No. 21, pp. 4104-4108 (2002)..	

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	287	CANNE et al. "Chemical Protein Synthesis by Solid Phase Ligation of Unprotected Peptide Segments", <i>J. Am. Chem. Soc.</i> , 121, 8720-8727 (1999).	
	288	CHAN, et al., "Intra-tRNA distance measurements for nucleocapsid protein-dependent tRNA unwinding during priming of HIV reverse transcription", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, pp. 459-464 (January 1999).	
	289	CHEN, et al., "Template-directed Synthesis on Oligodeoxycytidylate and Polydeoxycytidylate Templates", <i>J. Mol. Biol.</i> , Vol. 181, pp. 271-279 (1985).	
	290	CHEN, et al. "Enzyme Engineering for Nonaqueous Solvents: Random Mutagenesis to Enhance Activity of Subtilisin E in Polar Organic Media"; <i>Bio/Technology</i> 9, 1073-1077 (1991) - Abstract.	
	291	CHEN, et al. "Enzymes in Nonaqueous Solvents; Applications in Carbohydrate and Peptide Preparation", <i>Methods in Biotechnology</i> , Vol. 15, 373-374 (2001).	
	292	CHU et al. "Ligation of oligonucleotides to nucleic acids or proteins via disulfide bonds." <i>Nucleic Acids Research</i> . Vol. 16. No. 9. pp. 3671 -3691 (1998).	
	293	CLARK et al. "Design, synthesis and selection of DNA-encoded small-molecule libraries", <i>Nat Chem Biol</i> 5, 647 (2009).	
	294	CLARK, Matthew A. "Selecting chemicals: the emerging utility of DNA-encoded libraries", <i>Molecular Discovery Research, GlaxoSmithKline, Waltham, MA, USA</i> . Current Opinion in Chemical Biology, 14(3), 396-403, (2010). Publisher: Elsevier B.V.	
	295	COLOMBO, R. et al. "Synthesis of leucin-enkephalin and methionineenkephalin...", <i>Hoppe-Seyler's Z.Physiol.Chem.</i> Vol. 363 (1981).	
	296	CONSTANTINO, L et al. "Privileged structures as leads in medicinal chemistry", <i>Curr Med Chem</i> 13, 65, (2006).	
	297	COUSINS, et al. "Identification and Isolation of a Receptor for N-Methyl Alkylammonium Salts: Molecular Amplification in a Pseudo-peptide Dynamic Combinatorial Library", <i>Angew. Chem. Int. Ed.</i> , Vol. 40, No. 1, pp. 423-427 (2001).	
	298	CZARNIK, A. W. "Encoding strategies in combinatorial chemistry", <i>Proc. Natl. Acad. Sci. USA</i> , vol. 94, pp. 12738-12739 (November 1997).	
	299	CZARNIK, "Encoding methods for combinatorial chemistry", <i>Current Opinion in Chemical Biology</i> , Vol. 1, pp. 60-66 (1997).	
	300	CZLAPINSKI, et al. "Nucleic Acid Template-Directed Assembly of Metallosalen-DNA Conjugates", <i>J. Am. Chem. Soc.</i> , Vol. 123, No. 35, pp. 8618-8169 (2001).	

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		Art Unit	1634
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	301	DEGN, Hans, et al. "Enzyme Activity in Organic Solvent As A Function Of Water Activity Determined By Membrane Inlet Mass Spectrometry"; <i>Biotechnology Techniques</i> Vol 6; No. 2; pages 161-164 (March/April 1992)	
	302	DENAPOLI, et al. "PEG-supported Synthesis of Cyclic Oligodeoxyribonucleotides", <i>Nucleosides & Nucleotides</i> , Vol. 12, No. 1 (1993).	
	303	"DNA Phosphoramidites & CPG's"; http://www.qualitysystems.com.tw/proligo/dna%20phosphoramidites%20&%20cpg's.htm 12/2/10.	
	304	"Dokl Akad Nauk SSSR", Vol. 258, 1242-1245, Krynetsky NF Tumanov YV (1981)	
	305	DEWITT, et al. "Diversomers": An approach to nonpeptide, nonoligomeric chemical diversity", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 90, pp.6909-6913 (August 1993).	
	306	DOLINNAYA, et al. "Chemical ligation as a method for the assembly of double-stranded nucleic acids: Modifications and local structure studies", <i>Russian Chemical Bulletin</i> , Vol. 45, No. 8 (1996).	
	307	DOLINNAYA, et al. "Structural and kinetic aspects of chemical reactions in DNA duplexes. Information on DNA local structure obtained from chemical ligation data", <i>Nucleic Acids Research</i> , Vol. 19, No. 11, 3073-3080 (1991).	
	308	DOUGLAS, et al. "Polymer-supported solution synthesis of oligosaccharides", <i>J. Am. Chem. Soc.</i> , vol. 113 (1991).	
	309	DOWER, et al. "In vitro selection as a powerful tool for the applied evolution of proteins and peptides", <i>Current Opinion in Chemical Biology</i> , Vol. 6, pp. 390-398 (2002).	
	310	DOYON, et al. "Highly Sensitive in Vitro Selections for DNA-Linked Synthetic Small Molecules with Protein Binding Affinity and Specificity", <i>J. Am. Chem. Soc.</i> , Vol. 125, pp. 12372-12373 (2003).	
	311	DOYON, et al. "Highly Sensitive in Vitro Selections for DNA-Linked Synthetic Small Molecules with Protein Binding Affinity and Specificity", <i>J. Am. Chem. Soc.</i> , pp. S1-S8 (2003).	
	312	DRABOVICH, et al. "Selection of Smart Small-Molecule Ligands: The Proof of Principle", <i>Analytical Chemistry</i> , Vol. 81, No. 1, 490-494 (2009).	
	313	DREWS "Drug Discovery: A Historical Perspective", <i>Science</i> Vol. 287, pp. 1960-1964 (2000).	
	314	DREYER, et al. "Enzyme Catalysis in Nonaqueous Media: Past, Present and Future" in Patel (ed.), "Biocatalysis in the Pharmaceutical and Biotechnology Industries", 819-820 (2006)	
	315	ECKER, David J, et al. "Rational screening of oligonucleotide combinatorial libraries for drug discovery", <i>Nucleic Acids Research</i> , vol. 21, no. 8, pp. 1853-1856 (1993).	

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--------------------	-----------------

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	316	ELGHANIAN, et al. "Selective Colorimetric Detection of Polynucleotides Based on the Distance-Dependent Optical Properties Of Gold Nanoparticles", Science, Vol. 277, pp. 1078-1081 (August 22, 1997).	
	317	ELLMAN, et al. "Biosynthetic Method for Introducing Unnatural Amino Acids Site-Specifically into Proteins". Methods in Enzymology, Vol. 202, pp. 301-336 (1991).	
	318	FEGAN et al. "Rigid cyanine dye nucleic acid labels", <i>Chem Commun</i> May 7; (17) 2004-6 (2008).	
	319	FICHT, Simon, et al. "As Fast and Selective as Enzymatic Ligations: Upaired Nucleobases Increase the Selectivity of DNA-Controlled Native Chemical PNA Ligation"; <i>ChemBioChem</i> : Vol. 6, Issue 11, Pages 2098-2103 (2005).	
	320	"Finding reactions in a haystack: Try'em all, see what works." <i>Meeting American Chemical Society - Science</i> . Vol. 305. pp. 1558. (2004).	
	321	FREDRIKSSON, et al. "Protein detection using proximity-dependent DNA ligation assays", <i>Nature Biotechnology</i> , Vol. 20, pp. 473-477 (May 2002).	
	322	FRUTOS, et al. "Demonstration of a word design strategy for DNA computing on surfaces". <i>Nucleic Acids Research</i> , Vol. 25, No. 23, pp. 4748-4757 (1997)	
	323	FUJIMOTO, et al., "Template-directed photochemical synthesis of branched oligodeoxynucleotides via 5-carboxyvinyldeoxyuridine", <i>Tetrahedron Letters</i> , Vol. 41, pp. 9437-9440 (2000).	
	324	FUJIMOTO, et al., "Template-Directed Photoreversible Ligation of Deoxyoligonucleotides via 5-Vinyldeoxyuridine", <i>J. Am. Chem. Soc.</i> , Vol. 122, pp. 5646-5647 (2000)	
	325	FUJIMOTO, et al., "Template-directed reversible photocircularization of DNA via 5-vinyldeoxycytidine", <i>Tetrahedron Letters</i> , Vol. 41, pp. 6451-6454 (2000).	
	326	FURKA, A, "Combinatorial Chemistry: 20 years on...", <i>Drug Discovery today</i> vol. 7, No. 1, p1-4 (2002).	
	327	FURKA, et al. "Combinatorial Libraries by Portioning and Mixing", <i>Combinatorial Chemistry & High Throughput Screening</i> , 2, 105-122 (1999).	
	328	FURLAN, et al. "Molecular amplification in a dynamic combinatorial library using non-covalent interactions". <i>Chem. Commun.</i> , pp. 1761-1762 (2000).	
	329	GARTNER, et al., "Expanding the Reaction Scope of DNA-Templated Synthesis", <i>Angew. Chem. Int. Ed.</i> , Vol. 41, No. 10, pp. 1796-1800 (2002).	
	330	GARTNER, et al., "DNA-Templated Organic Synthesis and Selection of a Library of Macrocycles", <i>Science</i> , Vol. 305, pp. 1601-1605 (September 10, 2004).	

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	331	GARTNER, et al. "Multistep Small-Molecule Synthesis Programmed by DNA Templates". J. Am. Chem. Soc., Vol. 124, No. 35, pp. 10304-10306 (2002).	
	332	GARTNER, et al., "The Generality of DNA-Templated Synthesis as a Basis for Evolving Non-Natural Small Molecules", J. Am. Chem. Soc., Vol. 123, No. 28, pp. 6961-6963 (2001).	
	333	GARTNER, et al. "Two Enabling Architectures for DNA-Templated Organic Synthesis". Angew. Chem. Int. Ed., Vol. 42, No. 12, pp. 1370-1375 (2003).	
	334	GEYSEN, et al. "Combinatorial Compound Libraries for Drug Discovery: An Ongoing Challenge", Nature Reviews Drug Discovery, Vol. 2, pp. 222-230 (March 2003).	
	335	GORDON, et al. "Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions". Journal of Medicinal Chemistry, Vol. 37, No. 10, pp. 1385-1401 (May 13, 1994).	
	336	GORIN, et al. "Reactivity-Dependent PCR: Direct, Solution-Phase in Vitro Selection for Bond Formation", J. Am. Chem. Soc. 131, pp. 9189-9191 (2009).	
	337	GRUBINA, et al. "DNA-Templated Synthesis of a Synthetic Small Molecule Library", The Nucleus, Vol. LXXXII, No. 5, pp. 10-14 (January 2004).	
	338	GRUEN, et al. "An In Vivo Selection System for Homing Endonuclease Activity", Nucleic Acids Research 30, e29 (2002)	
	339	GRYAZNOV, et al., "Template controlled coupling and recombination of oligonucleotide blocks containing thiophosphoryl groups", Nucleic Acids Research, Vol. 21, No. 6, pp. 1403-1408 (1993).	
	340	GRYAZNOV, et al., "Chemical Ligation of Oligonucleotides in the Presence and Absence of a Template", J. Am. Chem. Soc., Vol. 115, No. 9, pp. 3808-3809 (1993).	
	341	GRYAZNOV, et al., "Enhancement of selectivity in recognition of nucleic acids via chemical autoligation", Nucleic Acids Research, Vol. 22, No. 12, pp. 2366-2369 (1994).	
	342	GUMPORT, et al. "T4 RNA Ligase as a Nucleic Acids Synthesis and Modification Reagent", Elsevier North Holland, Inc., 314-345 (1981).	
	343	GUO, T. et al. "Preparation of Encoded Combinatorial Libraries for Drug Discovery", Methods in Molecular Biology, Combinatorial Library Methods and Protocols, pp. 23-39 (2002).	
	344	HALPIN, et al. "DNA display I. Sequence-Encoded Routing of DNA Populations", PLoS Biology, Vol. 2, Issue 7, pp. 1015-1021 (July 2004).	
	345	HALPIN, et al. "DNA Display II. Genetic Manipulation of Combinatorial Chemistry Libraries for Small-Molecule Evolution", PLoS Biology, Vol. 2, Issue 7, pp. 1022-1030 (July 2004).	
	346	HALPIN, et al., "DNA Display III. Solid-Phase Organic Synthesis on Unprotected DNA", PLoS Biology, Vol. 2, Issue 7, pp. 1031-1038 (July 2004).	

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	347	HANSEN, M. "A Yoctoliter-scale DNA reactor for small-molecule evolution", <i>J Am Chem Soc.</i> 131, 1322 (2009).	
	348	HARADA, et al. "Unexpected substrate specificity of T4 DNA ligase revealed by in vitro selection", <i>Nucleic Acids Research</i> , Vol. 21, No. 10, 2287-2291 (1993)	
	349	HARADA "In vitro selection of optimal DNS substrates for ligation by a water-soluble carbodiimide", <i>J Mol Evol.</i> , 38, 6, 558-560 (1994).	
	350	HARADA, et al. "In vitro selection of optimal DNA substrates for t4 RNA ligase", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 90, pp. 1576-1579 (February 1993).	
	351	HERPIN, et al. "Synthesis of a 10000 member 1, 5-Benzodiazepine-2-one Library by the Directed Sorting Method", <i>J. Comb. Chem.</i> , 2, 513-521 (2000).	
	352	HERRLEIN, et al. "Selective chemical autoligation on a double-stranded DNA template", <i>Nucleic Acids Research</i> , Vol. 22, No. 23, pp. 5076-8 (1994).	
	353	HIGGINS, et al. "Addition of Oligonucleotides to the 5'-Terminus of DNA by T4 RNA Ligase", <i>Nucleic Acids Research</i> , 6(3): 1013-1024 (1979).	
	354	HIGGINS, et al. "DNA-joining Enzymes: A Review", <i>Methods in Enzymology</i> , vol. 68, pp 50-71 (1979).	
	355	HINTON, et al. "T4 RNA Ligase Joins 2'-Deoxyribonucleoside 3', 5'-Bisphosphates to Oligodeoxyribonucleotides", <i>Biochemistry</i> vol. 17, no. 24, pp. 5091-5097 (1978).	
	356	HOUSBY, Nicholas J, et al. "Fidelity of DNA ligation: a novel experimental approach based on the polymerisation of libraries of oligonucleotides", <i>Nucleic Acids Research</i> , vol. 26, no. 18, pp. 4259-4266 (1998).	
	357	INOUE, et al. "A nonenzymatic RNA polymerase model", <i>Science</i> , Vol. 219, pp. 859-862 (February 18, 1983).	
	358	INOUE, et al. "Oligomerization of (Guanosine 5'-phosphor)-2-methylimidazolid on Poly(C), <i>J. Mol. Biol.</i> , Vol. 162, pp. 201-217 (1982).	
	359	ITO et al. Tag-reporter and Resin Capture ± Release Strategy in Oligosaccharide Synthesis. <i>Chemistry - A European Journal</i> 8(14):3077-3084 (2002).	
	360	JAMES, Kenneth D. et al. "The Fidelity of Template-Directed Oligonucleotide Ligation and the Inevitability of Polymerase Function", <i>Origins of Life and Evolution of the Biosphere</i> 29, Kluwer Academic Publishers; pages 375-390, (1999).	
	361	JANDA, Kim D. "Tagged versus untagged libraries: Methods for the generation and screening of combinatorial chemical libraries", <i>Proc. Natl. Acad. Sci. USA</i> , vol. 91, pp. 10779-10785 (November 1994).	

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	363	JÄSCHKE, et al. "Synthesis and properties of oligodeoxyribonucleotide - polyethylene glycol conjugates", <i>Nucleic Acids Research</i> , vol. 22, no. 22, pp. 4810-4817 (1994).	
	364	JONES, et al. "Enzymes in organic synthesis 22. Effects of organic solvents on horse liver alcohol dehydrogenase-catalyzed reduction"; <i>Can. J. Chem.</i> 60 pages 335-338 (1982).	
	365	KAHN, Jason "DNA-ligases": http://adnadh.umd.edu/biochem/kahn/molmachines/replication/DNA%20ligase.htm downloaded 12-10-09.	
	366	KANAGAWA, Takahiro "Bias and Artifacts in Multitemplate Polymerase Chain Reactions (PCR)", <i>Journal of Bioscience and Bioengineering</i> , vol. 96, no. 4, pp. 317-323 (2003).	
	367	KANAN, et al. "Reaction Discovery Enabled by DNA-Templated Synthesis and In Vitro Selection", Supplementary Information, pp. 1-20.	
	368	KANAN, et al. "Reaction discovery enabled by DNA-templated synthesis and in vitro selection", <i>Nature</i> , Vol. 431, pp. 545-549 (September 30, 2004).	
	369	KEILER, et al., "Role of peptide tagging system in degradation of proteins synthesized from damaged messenger RNA", <i>Science</i> , Vol. 271, pp. 990-993 (February 16, 1996).	
	370	KERR, JM et al. "Encoded Combinatorial Peptide Libraries Containing Non-Natural Amino Acids", <i>J. Am. Chem. Soc.</i> 115, 2529-2531 (1993).	
	371	KINOSHITA, et al. "Enzymatic Synthesis of Code Regions for Encoded Combinatorial Chemistry", <i>Nucleic Acids Symposium Series</i> , 34: 201-202 (1995).	
	372	KINOSHITA, Y. et al. "Strand ligation in a double-stranded DNA by T4 RNA ligase", <i>Department of Functional Materials Science</i> , Saitama University, Urawa, Japan. <i>Chemistry Letters</i> (9), 797-798 (1996).	
	373	KLEKOTA, et al. "Selection of DNA-Binding Compounds via Multistage Molecular Evolution". <i>Tetrahedron</i> 55, pp. 11687-11697 (1999).	
	374	KLIBANOV, Alexander M. "Why are enzymes less active in organic solvent than water?"; <i>Trends in Biotechnology</i> ; Vol. 15, Issue 3, 97-101; 1 (March 1997) - Abstract.	
	375	KRISHNA, Sajja Hari "Developments and trends in enzyme catalysis in nonconventional media", <i>Biotechnology Advances</i> ; vol. 20; Issues 3-4; Pages 239-267 (November 2002) - Abstract.	
	376	KRUG, et al. "Reversal of T4 RNA Ligase", <i>Biochemistry</i> vol. 21, no. 8, pp. 1858-1864 (1982).	

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	377	KURZ, et al. "cDNA - Protein Fusions: Covalent Protein - Gene Conjugates for the In Vitro Selection of Peptides and Proteins", CHEMBIOCHEM, Vol. 2, pages 666-672 (2001).	
	378	KURZ, et al. "An Efficient Synthetic Strategy for the Preparation of Nucleic Acid-Encoded Peptide and Protein Libraries for In Vitro Evolution Protocols", Fourth International Electronic Conference on Synthetic Organic Chemistry (ECSOC-4), www.mdpi.org/ecsoc-4.htm, 5 pages, September 1-30, 2000.	
	379	KURZ, et al. "Psoralen photo-crosslinked mRNA-puromycin conjugates: a novel template for the rapid and facile preparation of mRNA-protein fusions", Nucleic Acids Research, Vol. 28, No. 18, 5 pages (2000).	
	380	LEBL, Michal "Parallel Personal Comments on "Classical" Papers in Combinatorial Chemistry", J. Comb. Chem. 1, pp. 3-24 (1999).	
	381	LEHMAN, I.R. "DNA ligase: Structure, Mechanism, and Function; The joining of DNA chains by DNA ligase is an essential component of DNA repair, replication, and recombination", Science vol. 186; pages 790-797 (1974).	
	382	LEITZEL, et al. "Template-Directed Ligation: From DNA Towards Different Versatile Templates", The Chemical Record, Vol. 1, pp. 53-62 (2001).	
	383	LETSINGER, et al. "Chemical and photochemical ligation of oligonucleotide blocks", Nucleosides & Nucleotides, Vol. 16, Nos. 5-6, pp. 643-652 (1997).	
	384	LEWIS, et al. "Ligation of oligonucleotides by pyrimidine dimers - a missing 'link' in the origin of life?", Nature, Vol. 298, pp 393-396 (July 22, 1982).	
	385	LI, et al. "DNA-Catalyzed Polymerization", J. Am. Chem. Soc., Vol. 124, No.5, pp. 746-747, (2002).	
	386	LI, et al. "Stereoselectivity in DNA-Templated Organic Synthesis and Its Origins". J. Am. Chem. Soc., Vol. 125, No. 34, pp. 10188-10189 (2003).	
	387	LI, et al. "DNA-Templated Organic Synthesis: Nature's Strategy for Controlling Chemical Reactivity Applied to Synthetic Molecules", Angew. Chem. Int. Ed., Vol. 43, pp. 4848-4870 (2004).	
	388	LI, et al. "Translation of DNA into Synthetic N-Acyloxazolidines", J. Am. Chem. Soc., Vol. 126, pp. 5090-5092 (2004).	
	389	"Ligase", Answers.com: http://www.answers.com/topic/ligase, [accessed 12-10-2009]	
	390	LIM, Carols S. et al. "Syntehsis of DNA Dumbbells: Chemical vs. Enzymatic Ligation of Self-Complementary Oligonucleotides", Abstract only, Nucleotides and Nucleic Acids; Vol 16, Issue 1 & 2; pp 41-51 (January 1997).	

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	391	LINDSTRÖM, Ulf M. et al. "An orthogonal oligonucleotide protecting group strategy that enables assembly of repetitive or highly structured DNAs"; <i>Nucleic Acids Research</i> 30(19), e101; 2002 Oxford University Press (2002 October 1).	
	392	LIU, D.R. "Development of Amplifiable and Evolvable Unnatural Molecules", website of Dr. D. R. Liu, publicly available 11 March 2000. http://web.archive.org/web/20000311112631/http://evolve.havard.edu	
	393	LIU, D.R. "The Chemistry and Chemical Biology of Molecular Evolution," website of Dr. D.R. Liu, publicly available 1 March 2001. http://web.archive.org/web/20010301175107/http://evolve.havard.edu .	
	394	LIU, D.R. "The Chemistry and Chemical Biology of Molecular Evolution," website of Dr. D.R. Liu, publicly available 15 October 2003. http://web.archive.org/web/20031216020734/http://evolve.havard.edu .	
	395	LIU, D.R. "The Chemistry and Chemical Biology of Molecular Evolution," website of Dr. D.R. Liu, publicly available 20 November 2002. http://web.archive.org/web/20021129131743/http://evolve.havard.edu .	
	396	LIU, D.R. "The Chemistry of Molecular Evolution," website of Dr. D.R. Liu, publicly available 15 October 2000. http://web.archive.org/web/20001015144553/http://evolve.havard.edu .	
	397	LIU, D.R. "The Chemistry and Chemical Biology of molecular Evolution", Liu Group Research Summary from the website of Professor David R. Liu, obtained from the website in February 2005.	
	398	LIU, "The Development of Amplifiable and Evolvable Unnatural Molecules", Harvard University, Department of Chemistry and Chemical Biology, Grant No. N00014-00-1-0596, 4 pages, Report dated August 4, approved for public release.	
	399	LIU, et al., "DNA-Templated Synthesis as a Basis for the Evolution of Synthetic Molecules.", ORGN 612, Division of Organic Chemistry, The 225th ACS National Meeting, New Orleans, LA, 1 page (March 23-27, 2003).	
	400	LIU, et al. "Engineering a tRNA and aminoacyl-tRNA synthetase for the site-specific incorporation on unnatural amino acids into proteins in vivo". <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94, pp. 10092-10097 (September 1997).	
	401	LIU, et al. "Progress toward the evolution of an organism with an expanded genetic code", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, pp. 4780-4785 (April 1999).	
	402	LIU, "Translating DNA into Synthetic Molecules", <i>PLoS Biology</i> , Vol. 2, Issue 7, pp. 905-906 (July 2004).	

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	403	LIU, et al. "Template-directed photoligation of oligodeoxyribonucleotides via 4-thiothymidine", Nucleic Acids Research, Vol. 26, 13, pp 3300-33044 (1998).	
	404	LIU, et al. "Optimized Synthesis of RNA-Protein Fusions for in vitro Protein Selection", Methods in Enzymology, Vol. 318, pp. 268-293 (2000).	
	405	LOBANOV <i>Trends in Biotechnology</i> , vol. 20, no. 2, pp. 86-87 (February 2002).	
	406	LOCKHART, et al. "Expression monitoring by hybridization to high-density oligonucleotide arrays", Bio/Technology, Nature publishing co., New York, US, vol 14, no. 13, p 1675-1680 (1 Dec 1996).	
	407	LOUGHLIN, Wendy A. "Biotransformations in organic synthesis"; Bioresource Technology 74, pages 49-62 (2000).	
	408	LOWE, et al. "Combinatorial Libraries for Studying Molecular Recognition", URL: http://www.iupac.org/symposia/proceedings/phuket97/lowe.html , 7 pages, downloaded in June 2005.	
	409	LOWETH, et al. "DNA-Based Assembly of Gold Nanocrystals", Angew. Chem. Int. Ed., Vol. 38, No. 12, pp. 1808-1812 (1999).	
	410	LUEBKE, Kevin J. et al. "Nonenzymatic ligation of double-helical DNA by alternate-strand triple helix formation"; Nucleic Acids Research; Vol. 20, No. 12; pages 3005-3009 (1992).	
	411	LUO, et al. "Analysis of the Structure and Stability of a Backbone-Modified Oligonucleotide: Implications for Avoiding Product Inhibition in Catalytic Template-Directed Synthesis", J. Am. Chem. Soc., Vol. 120, No. 13, pp. 3019-3031 (1998).	
	412	LUTHER, et al. "Surface-promoted replication and exponential amplification of DNA analogues". Nature, Vol. 396, pp. 245-248 (November 19, 1998).	
	413	MACLEAN, Derek, et al. "Encoded Combinatorial Chemistry: Synthesis and screening of a library of highly functionalized pyrrolidines", Proc. Natl. Acad. Sci. USA, vol. 94, pp. 2805-2810 (April 1997).	
	414	MAGLIERY, et al. "Expanding the Genetic Code In Vitro and In Vivo", The Genetic Code and the Origin of Life, Ed. Ribas de Pouplana, L. Landes Bioscience, In Press (2004)	
	415	MAKARA, Gergely M. et al. "Improving Success rates for lead generation using affinity binding technologies", Current Opinion in Biotechnology 16:666-673 (2005).	
	416	MANNOCCI, L. "DNA-Encoded affinity maturation libraries", Proc Natl Acad Sci USA 105, 17670 (2008).	
	417	MANNOCCI, Lucca "DNA-Encoded Chemical Libraries", Diss. ETH No. 18153 (2009).	

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	418	MARGULIES, M. et al., "Genome sequencing in microfabricated high-density picolitre reactors", <i>Nature</i> 437, 376 (2005).	
	419	MATSUDA, et al. "Low Fidelity DNA Synthesis by Human DNA Polymerase-?", <i>Nature</i> , 404: 1011-1013 (27 April 2000).	
	420	MATSUURA, K., et al. "Construction of glyco-clusters by self-organization of site-specifically glycosylated oligonucleotides and their cooperative amplification of lectin-recognition." <i>Journal of the American Chemical Society</i> , vol. 123, no. 2, pages 357-358 (Jan. 17, 2001).	
	421	McCOY, et al. "T4 Ribonucleic Acid Ligase Joins Single-Strand Oligo(deoxyribonucleotides)", <i>Biochemistry</i> vol. 19, no. 4, 635-642 (1980).	
	422	McGREGOR, et al. "Interaction-Dependent PCR: Identification of Ligand-Target Pairs from Libraries of Ligands and Libraries of Targets in a Single Solution-Phase Experiment", <i>J. Am. Chem. Soc.</i> 132, pp. 15522-15524 (2010).	
	423	MELKKO, Samu. et al. "Lead discovery by DNA-encoded chemical libraries", <i>Drug Discovery Today</i> , vol. 12, no. 11/12, pp. 465-471 (June 2007).	
	424	MENDEL, D. "Site-directed mutagenesis with an expanded genetic code." <i>Annu. Rev. Biophys. Biomol. Struc.</i> vol. 24, pp. 435-462. (1995)	
	425	MILLER, Scott J. "DNA as a template for reaction discovery", <i>Nature Biotechnology</i> , Vol. 22, No. 11, pp. 1378-1379 (November 2004).	
	426	MIRKIN, "Programming the Assembly of Two- and Three-Dimensional Architectures with DNA and Nanoscale Inorganic Building Blocks", <i>Inorg. Chem.</i> , Vol. 39, No. 11, pp. 2258-2272 (2000).	
	427	MUDRAKOVSKAYA, et al. "Solid-Phase Enzymatic Synthesis of Oligoribonucleotides", <i>Bioorg Khim</i> vol. 17, no. 6, pp. 469-472 (1991).	
	428	MUTTER, M. et al. "Functionalized polyethylene glycols and polypeptides in organic synthesis and catalysis", <i>Reactive Polymers</i> , Vol. 6, pp. 99-107 (1987).	
	429	NAZARENKO, et al. "A closed tube format for amplification and detection of DNA based on energy transfer", <i>Nucleic Acids Research</i> , Vol. 25, No. 12, pp. 2516-2521 (1997).	
	430	NEEDEL, CM, et al. "Generation and screening of an oligonucleotide-encoded synthetic peptide library", <i>Proc. Natl. Acad. Sci., USA</i> , Vol. 90, pp 10700-10704. (November 1993).	
	431	NEMOTO, et al. "In vitro virus: bonding of mRNA bearing puromycin at the 3'-terminal end to the C-terminal end of its encoded protein on the ribosome in vitro", <i>FEBS Letters</i> , Vol. 414, pp. 405-408 (1997).	

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	432	NESTLER, HP et al. "A General Method for Molecular Tagging of Encoded Combinatorial Chemistry Libraries", <i>J. Org. Chem.</i> , 59, 4723-4724 (1994).	
	433	NIELSEN, et al. "Synthetic Methods for the Implementation of Encoded Combinatorial Chemistry", <i>J. Am. Chem. Soc.</i> , Vol. 115, pp. 9812-9813 (1993).	
	434	NIELSEN "Combinatorial chemistry and automation", <i>DDT</i> , vol. 1, no. 11, pp. 458-460 (November 1996).	
	435	NIKOLAIEV, V et al. "Peptide-Encoding for structure determination of nonsequenceable polymers within libraries synthesized and tested on solid-phase supports", <i>Peptide Research</i> , Vol. 6, No. 3, pp 161-170 (1993).	
	436	NISHIGAKI, Koichi, et al. "Y-ligation: an efficient method for ligating single stranded DNAs and RNAs with T4 RNA ligase", Department of Functional Materials Science, Saitama University, Urawa, Japan. <i>Molecular Diversity</i> Volume 4(3), 187-190 (2000).	
	437	OHLMEYER, et al. "Complex synthetic chemical libraries indexed with molecular tags". <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 90, pp.10922-10926 (December 1993).	
	438	"Organic Chemistry", Wikipedia, [accessed 12-10-2009]: http://en.wikipedia.org/wiki/organic_chemistry (10 pages)	
	439	"Orthogonal Protection Protecting Group", Wikipedia: http://en.wikipedia.org/wiki/protecting_group#Orthogonal_protection [accessed 4-15-2010]	
	440	OTTO, et al. "Recent developments in dynamic combinatorial chemistry", <i>Current Opinion in Chemical Biology</i> , Vol. 6, pp. 321-327 (2002).	
	442	PAVIA, "The Chemical Generation of Molecular Diversity". http://www.netsci.org/Science/Combichem/feature01.html , 10 pages (access November 2, 2004).	
	443	PERSICHETTI, et al. "Cross-Linked Enzyme Crystals (CLECs) of Thermolysin in the Synthesis of Peptides", <i>Journal of the American Chemical Society</i> , 117: 2732-2737 (1995).	
	444	PICCIRILLI, "RNA seeks its maker", <i>Nature</i> , Vol. 376, pp. 548-549 (August 17, 1995).	
	445	POCHET, et al. "Solid-Supported Ligation Primer", <i>Nucleic Acids Research</i> , 16(4): 1619 (1988).	
	446	POLSKY-CYNKIN et al. "Use of DNA immobilized on plastic and agarose supports to detect DNA by sandwich hybridization", <i>Clin. Chem.</i> 31(9): 1438-43 (1985 Sep).	

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		First Named Inventor	Per-Ola Freskgard
		Art Unit	1634
		Examiner Name	Frank Wei Min Lu
Sheet	23 of 36	Attorney Docket Number	16828.0012FPWO

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	447	PORCO, Jr. "Synthesis Undressed", <i>Nature</i> 446, 383-5 (March 22, 2007)	
	448	PURMAL, Andrei A., et al. "A new affinity reagent for the site-specific, covalent attachment of DNA to active-site nucleophiles: application to the EcoRI and RsrI restriction and modification enzymes", <i>Nucleic Acids Research</i> ; Vol. 20, No. 14; Oxford University Press; pages 3713-3719 (1992).	
	449	RAMSTRÖM, et al. "In situ Generation and Screening of a Dynamic Combinatorial Carbohydrate Library Against Concanavalin A", <i>ChemBioChem</i> , Vol. 1, pp. 41-48 (2000).	
	450	REMBOLD, et al., "Single-Strand Regions of Poly(G) Act as Templates for Oligo(C) Synthesis", <i>J. Mol. Evol.</i> , Vol. 38, pp. 205-210 (1994).	
	451	ROBERTS, et al. "Simultaneous selection, amplification and isolation of a pseudo-peptide receptor by an immobilised N-methyl ammonium ion template". <i>Chem. Commun.</i> , pp. 938-939 (2002).	
	452	ROBERTS, et al. "RNA-peptide fusions for the <i>in vitro</i> selection of peptides and proteins". <i>Proc Natl Acad Sci USA</i> , Vol. 94, pp. 12297-12302 (November 1997).	
	453	ROBERTSON, Dan "Direct Evolution Process for Robust Enzyme Catalysis in Organic Solvents"; Report date: Sept. 1996. pp 1-14	
	454	ROBINSON "A Synthesis of Tropinone", <i>Journal of the Chemical Society Transactions</i> , vol. 111, pp. 762-768, (1917).	
	455	RODRIGUEZ, et al. "Template-Directed Extension of a Guanosine 5'-Phosphate Covalently Attached to an Oligodeoxycytidylate Template", <i>J Mol Evol</i> , Vol. 33, pp. 477-482 (1991).	
	456	ROMANIUK, et al. "Joining of RNA molecules with RNA ligase", <i>Methods in Enzymology</i> , vol. 100, pp. 52-59, (1983).	
	457	ROSENBAUM, et al. "Efficient and Sequence-Specific DNA-Templated Polymerization of Peptide Nucleic Acid Aldehydes". <i>J. Am. Chem. Soc.</i> Vol. 125, 13924-13925 (2003).	
	458	SAIKI et al. "Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes" <i>PNAS</i> 86(16): 6230-6234 (1989).	
	459	SAKURAI, et al. "DNA-Templated Functional Group Transformations Enable Sequence-Programmed Synthesis Using Small-Molecule Reagents", <i>J. Am.Chem. Soc.</i> , Vol. 127, No. 6, pp. 1660-1661 (2005).	
	460	SALAS, et al. "Biosynthetic Polydeoxynucleotides as Direct Templates for Polypeptide Synthesis", <i>The Journal of Biological Chemistry</i> , Vol. 243, No. 6, pp. 1012-1015 (March 10, 1968).	

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	461	SARMENTO, et al. "Cardosins A and B, Two New Enzymes Available for Peptide Synthesis", <i>Journal of Molecular Catalysis B: Enzymatic</i> , 5: 327-330 (1998).	
	462	SCHEUERMANN, Jörg, et al. "DNA-encoded chemical libraries", <i>Journal of Biotechnology</i> 126 568-581 (2006).	
	463	SCHEUERMANN, Jörg, et al. "DNA-encoded chemical libraries: A tool for drug discovery and for chemical biology", <i>ChemBioChem</i> 0000, 00, 1-8 (2010).	
	464	SCHMITZ, et al. "Solid-Phase Enzymatic Synthesis of Oligonucleotides", <i>Organic Letters</i> , 1(11): 1729-1731 (1999).	
	465	SCHMIDT, et al. "Information transfer from DNA to peptide nucleic acids by template-directed syntheses", <i>Nucleic Acids Research</i> , Vol. 25, No. 23, pp. 4792-4796 (1997).	
	466	SCHMIDT, et al., "Information transfer from peptide nucleic acids to RNA by template-directed syntheses", <i>Nucleic Acids Research</i> , Vol. 25, No. 23, pp. 4792-4796 (1997).	
	467	SCHULTZ, et al. "The Combinatorial Library: A Multifunctional Resource", <i>Biotechnol. Prog.</i> 12, 729-743 (1996).	
	468	SCHWARTZ, et al. "Template Directed Synthesis of Novel, Nucleic Acid-Like Structures, <i>Science</i> , Vol. 228, pp. 585-587 (May 3, 1985)	
	469	SHABAROVA, et al. "Chemical ligation of DNA: the first non-enzymatic assembly of a biologically active gene", <i>Nucl. Acids Res.</i> , 19:4247-51 (1991).	
	470	SHARIFIAN, Hoda. "Errors induced during PCR amplification", May 30, 2010.	
	471	SHCHEPINOV, et al. "Trityl Tags for Encoding in Combinatorial Synthesis", <i>Tetrahedron</i> , Vol. 56, pp. 2713-2724 (2000).	
	472	SHUMAN, Stewart. "DNA ligases: Progress and Prospects"; jbc.org/content/284/26/17365 . full downloaded 02/10/2009.	
	473	SMITH, et al., "DNA-guided assembly of proteins as a pathway to an assembler", (wadsworth.org/albcon97/abstract/krummena.htm) The 1997 Albany Conference: Biomolecular Motors and Nanomachines, 1 page (1997)	
	474	SNYDER, T. "Ordered multistep synthesis in a single solution directed by DNA templates", <i>Angew Chem Int Ed Engl</i> 44, 7379 (2005).	
	475	SOKOLOVA, N.I., et al. "Chemical reactions within DNA duplexes; Cyanogen bromide as an effective oligodeoxyribonucleotide coupling agent"; <i>FEBS letters</i> , Volume 232, number 1, pages 153-155 (May 1988).	

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	476	STILL, W. Clark "Career-In-Review (CIR)", BJ Wright, Synthesis Literacy Group, Columbia University Chemistry, March 30, 2007.	
	477	STORHOFF, et al., "Programmed Materials Synthesis with DNA", Chem. Rev., Vol.99, No. 7, pp. 1849-1862 (1999).	
	478	SUMMERER, et al., "DNA-Templated Synthesis: More Versatile than Expected", Angew. Chem. Int. Ed., Vol. 41, No. 1, pp. 89-90 (2002).	
	479	TABOR, Stanley "DNA-ligases"; <i>Current Protocols in Molecular Biology</i> 3.14.1-3.14.4 (1987).	
	480	TAKEMORI, Shigeki, et al. "Stabilization of Enzyme Activity by an Organic Solvent", Abstract only, <i>Nature</i> 215, 417-419 (22 July 1967).	
	481	TAMURA, et al., "Oligonucleotide-directed peptide synthesis in a ribosome- and ribozyme-free system", Proc Natl. Acad. Sci. USA, Vol. 98, No. 4, pp. 1393-1397 (February 13, 2001)	
	482	TAN et al. "Natural-product inhibitors of human DNA ligase I", <i>Biochemical Journal</i> 314: 993-1000 (1996).	
	483	TAN, Derek S. et al. "Ligand discovery using encoded combinatorial libraries", <i>Current Opinion in Drug Discovery & Development</i> , 3(4), p. 439-53 (July 2000).	
	484	TANAKA, et al. "Synthesis of a Novel Nucleoside for Alternative DNA Base Pairing through Metal Complexation", J. Org. Chem., Vol. 64, No. 14, pp. 5002-5003 (1999).	
	485	TESSIER, et al. "Ligation of Single-Stranded Oligodeoxyribonucleotides by T4 RNA Ligase", <i>Analytical Biochemistry</i> 158, 171-178 (1986).	
	486	TSE, B. "Translation of DNA into a library of 13,000 synthetic small-molecule macrocycles suitable for in vitro selection", <i>J Am Chem Soc</i> 130, 15611 (2008).	
	487	UNKNOWN "Science & Technology: Concentrates", <i>Chem. & Eng. News</i> 82 [40] 31 (2004)	
	488	UHLENBECK, et al. "T4 RNA Ligase", <i>The Enzymes</i> , vol XV, pp. 31-58 (1982).	
	489	VÁGNER, et al. "Enzyme-mediated spatial segregation on individual polymeric support beads: Application to generation and screening of encoded combinatorial libraries", <i>Proc. Natl. Acad. Sci. USA</i> , vol. 93, pp. 8194-8199, (August 1996).	
	490	VAISMAN, et al. "Human DNA polymerase, promiscuous mismatch extension", <i>JBC</i> 276: 30615-30622 (2001)	
	491	VISSCHER, et al., "Template-Directed Oligomerization Catalyzed by a Polynucleotide Analog", <i>Science</i> , Vol. 244, pp. 329-331 (April 21, 1989).	
	492	VISSCHER, et al. "Template-Directed Synthesis of Acyclic Oligonucleotide Analogues", <i>J Mol Evol</i> , Vol. 28, pp. 3-6 (1988).	

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	493	VISSCHER, et al., "Oligomerization of deoxynucleoside-bisphosphate dimers: template and linkage specificity", <i>Origins of Life and Evolution of the Biosphere</i> , Vol. 19, pp. 3-6 (1989).	
	494	VRATSKIKH, et al. "Solid-phase synthesis of oligoribonucleotides using T4 RNA ligase and T4 polynucleotide kinase", <i>Biochimie</i> 77, 227-232 (1995).	
	495	WALDER, JA., et al. "Complementary carrier Peptide Synthesis: General Strategy and Implications for Prebiotic Origin of Peptide Synthesis", <i>Department of Chemistry, and Department of Biochemistry and Molecular Biology, Northwestern University</i> , Evanston, Illinois 60201, Vol. 76, No. 1, p. 51-55, (1979).	
	496	WANG, et al. "A New Functional Suppressor tRNA/Aminoacyl-tRNA Synthetase Pair for the in Vivo Incorporation of Unnatural Amino Acids into Proteins", <i>J. Am. Chem. Soc.</i> , Vol. 122, No. 20, pp. 5010-5011 (2000).	
	497	WANG, S., et al. "Circular RNA oligonucleotides. Synthesis, nucleic acid binding properties, and a comparison with circular DNAs"; <i>Nucleic Acids Research</i> , 1994, Vol. 22, No. 12; Oxford University Press; pages 2326-2333 (1994).	
	498	WASHINGTON, et al. "Mismatch extension ability of yeast and human DNA polymerase η ", <i>JBC</i> 276: 2263-2266 (2001)	
	499	WAYBRIGHT, et al., "Oligonucleotide-Directed Assembly of Materials: Defined Oligomers", <i>J. Am Chem Soc.</i> , Vol. 123, No. 9, pp. 1828-1833 (2001).	
	500	Website of prof. David R. Liu, publicly available March 1, 2001	
	501	Website of prof. David R. Liu, publicly available March 11, 2000.	
	502	Website of prof. David R. Liu, publicly available October 15, 2000	
	503	Website of prof. David R. Liu, publicly available October 15, 2003	
	504	Website of prof. David R. Liu, publicly available April 19, 2001	
	505	Website of prof. David R. Liu, publicly available November 20, 2002	
	506	Website of prof. David R. Liu, publicly available September 23, 2001	
	507	Website of prof. David R. Liu, publicly available September 24, 2002	
	508	Website of prof. David R. Liu, publicly available April 23, 2003	
	509	Website of prof. David R. Liu, publicly available August 1, 2003	
	510	Website of prof. David R. Liu, publicly available August 2, 2002	
	511	Website of prof. David R. Liu, publicly available February 8, 2003	
	512	Website of prof. David R. Liu, publicly available February 10, 2004	
	513	Website of prof. David R. Liu, publicly available February 15, 2001	
	514	Website of prof. David R. Liu, publicly available December 16, 2003	

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	517	Website of prof. David R. Liu, publicly available March 27, 2003	
	518	Website of prof. David R. Liu, publicly available March 31, 2001	
	519	Website of prof. David R. Liu, publicly available Nov 29, 2002	
	520	Website of prof. David R. Liu, publicly available Nov 30, 2001	
	521	Website of prof. David R. Liu, publicly available Oct 17, 2002	
	522	WEISS, et al. "Enzymatic Breakage And Joining Of Deoxyribonucleic Acid, I. Repair Of Single-Strand Breaks In DNA By An Enzyme System From Escherichia Coli Infected With T4 Bacteriophage" <i>PNAS</i> 57, (4): 1021-1028 (1967).	
	523	WEIZMAN, et al. "2,2'-Bipyridine Ligand: A Novel Building Block for Modifying DNA with Intra-Duplex Metal Complexes". <i>J. Am. Chem. Soc.</i> , Vol. 123, No. 14, pp. 3375-3376 (2001).	
	524	WHITESIDES, et al. "Enzymes as Catalysts in Organic Synthesis", <i>Aldrichimica Acta.</i> , vol. 16, no. 2, pp. 27-34, (1983).	
	525	WINZELER, et al. "Fluorescence-based expression monitoring using microarrays", <i>Methods Enzymol.</i> 306: 3-18 (1999).	
	526	WONG, Daphne M. et al. "Branch capture reactions: displacers derived from asymmetric PCR"; 1991 <i>Oxford University Press; Nucleic Acids Research</i> ; Vol. 19; No. 9; Pages 2251-2259 (1991).	
	527	XU, Y, et al. "A Novel 5'-Iodonucleoside Allows Efficient Non-enzymatic Ligation of Single-Stranded and Duplex DNA", Abstract, <i>Glen Research Catalog, Tetrahedron Letters</i> 38:5595-5598 (1997).	
	528	XU, Y, et al. "High sequence fidelity in a non-enzymatic DNA autoligation reaction", <i>Nucleic Acids Research</i> , Vol. 27, No. 3; pages 875-881 (1999).	
	529	XU, et al. "Nonenzymatic autoligation in direct three-color detection of RNA and DNA point mutations", <i>Nature Biotechnology</i> , Vol. 19, pp. 148-152 (February 2001).	
	530	XU, et al. "Rapid and Selective Selenium-Mediated Autoligation of DNA Strands", <i>J. Am. Chem. Soc.</i> , Vol. 122, No. 37, pp. 9040-9041 (2000).	
	531	ZHAN, et al. "Chemical Amplification through Template-Directed Synthesis", <i>J. Am. Chem. Soc.</i> , Vol. 119, No. 50, pp. 12420-12421 (1997).	
	532	ZHU, et al. "A Primer-dependent Polymerase Function of <i>Pseudomonas aeruginosa</i> ATP-dependent DNA ligase (LigD). <i>Journal of Biological Chemistry</i> 280(1): 418-427 (2005).	

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Sheet	28 of 36	Attorney Docket Number	16828.0012FPWO

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	533	ZUCKERMAN, et al. "Discovery of Nanomolar Ligands for 7-Transmembrane G-Protein-Coupled Receptors from a Diverse N-(Substituted) Glycine Peptoid Library", J. Med. Chem., Vol. 37, No. 17, pp. 2678-2685 (1994).	
	534	Decision to Grant from European Application No. EP 02740409.4 dated 26 July 2007.	
	535	European Office Action from European Application No. EP 02740409.4 dated 1 September 2005	
	536	Reply to European Office Action from European Application No. EP 02740409.4 dated 16 June 2006.	
	537	Intent to Grant from European Application No. EP 02740409.4 printed 13 October 2006.	
	538	Extended European Search Report from European Application No. 07114663.3 dated 25 May 2009.	
	539	Extended European Search Report from European Application No. 10 18 4311 dated 28 February 2011.	
	540	International Preliminary Examination Report from PCT No. PCT/DK02/00419 dated 28 January 2004.	
	541	International Search Report from PCT No. PCT/DK02/00419 dated 25 June 2003.	
	542	Restriction Requirement from US Serial No. 10/175,539 mailed 6 April 2005.	
	543	Response to Restriction Requirement from US Serial No. 10/175,539 mailed 6 May 2005.	
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	548	Office Action (Final Rejection) from US Serial No. 10/175,539 mailed 19 May 2006.	
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	550	Request for Continued Examination from US Serial No. 10/175,539 dated 20 February 2007.	
	551	Office Action (Ex Parte Quayle Action) from US Serial No. 10/175,539 mailed 27 November 2007.	
	552	Response to Ex Parte Quayle Action from US Serial No. 10/175,539 filed 27 February 2008.	
	553	Notice of Allowance from US Serial No. 10/175,539 mailed 30 May 2008.	
	554	Issue Notification US Serial No. 10/175,539 issued 1 June 2010.	

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		Application Number	10/589,551
		Filing Date	September 17, 2007
		First Named Inventor	Per-Ola Freskgard
		Art Unit	1634
		Examiner Name	Frank Wei Min Lu
Sheet	29 of 36	Attorney Docket Number	16828.0012FPWO

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	555	Office Action (Non-Final Rejection) from US Serial No. 12/330,709 mailed 27 October 2009.	
	556	Response to Office Action (Non-Final Rejection) from US Serial No. 12/330,709 filed 21 April 2010.	
	557	Notice of Allowance from US Serial No. 12/330,709 mailed 3 March 2011.	
	558	Request for Continued Examination and supplemental IDS from US Serial No. 12/330,709 filed 2 June 2011.	
	559	Office Action from European Application No. 03709676.5 dated 23 February 2005.	
	560	Reply to 1st Office Action from European Application No. 03709676.5 dated 30 June 2005.	
	561	2nd Office Action from European Application No. 03709676.5 dated 26 August 2005.	
	562	Reply to 2nd Office Action from European Application No. 03709676.5 dated 13 September 2005.	
	563	3rd Office Action from European Application No. 03709676.5 dated 30 September 2005.	
	564	Reply to 3rd Office Action from European Application No. 03709676.5 dated 19 May 2006.	
	565	Intent to Grant from European Application No. 03709676.5 dated 10 October 2006.	
	566	Amendment after Intention to Grant from European Application No. 03709676.5 dated 16 November 2007.	
	567	Decision to Grant from European Application No. 03709676.5 dated 23 October 2008.	
	568	European Search Report from European Application No. 08 16 9346 mailed 13 April 2010.	
	569	1st Office Action from European Application No. 08169346.7 mailed 19 April 2011.	
	570	Response filed in European Application No. 08169346.7 mailed 23 March 2011.	
	571	International Search Report for PCT Application No. PCT/DK03/00172 mailed 3 November 2003.	
	572	Office Action (Non-Final) for US Serial No. 10/507,121 mailed 8 February 2007.	
	573	Response to Office Action for US Serial No. 10/507,121 mailed 7 June 2007.	
	574	Office Action (Final Rejection) for US Serial No. 10/507,121 mailed 7 September 2007.	
	575	Request for Continued Examination and supplemental amendment for US Serial No. 10/507,121 filed 13 February 2008.	
	576	Notice of Allowance for US Serial No. 10/507,121 mailed 20 March 2008.	
	577	Issue Notification for US Serial No. 10/507,121 mailed 30 July 2008.	
	578	Office Action (Non-Final) from US Serial No. 12/179,323 mailed 27 January 2010.	

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		Filing Date	September 17, 2007
		First Named Inventor	Per-Ola Freskgard
		Art Unit	1634
		Examiner Name	Frank Wei Min Lu
Sheet	30 of 36	Attorney Docket Number	16828.0012FPWO

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	579	Response to Office Action from US Serial No. 12/179,323 filed 24 June 2010.	
	580	Office Action (Final Rejection) for US Serial No. 12/179,323 mailed 15 September 2010.	
	581	Notice of Appeal from US Serial No. 12/179,323 filed 15 March 2011.	
	582	1st Office Action from European Application No. 03766117.0 dated 24 March 2009.	
	583	Reply to 1st Office Action from European Application No. 03766117.0 dated 8 January 2010.	
	584	2nd Office Action from European Application No. 03766117.0 dated 16 February 2010.	
	585	Reply to 2nd Office Action from European Application No. 03766117.0 dated 20 August 2010.	
	586	3rd Office Action from European Application No. 03766117.0 dated 19 November 2010.	
	587	Reply to 3rd Office Action from European Application No. 03766117.0 dated 23 May 2011.	
	588	4th Office Action from European Application No. 03766117.0 dated 9 June 2011.	
	589	International Search Report from PCT Application No. PCT/DK03/00516 mailed 18 February 2004.	
	590	1st Restriction Requirement from US Serial No. 10/523,006 mailed 4 April 2008.	
	591	Response to 1st Restriction Requirement from US Serial No. 10/523,006 filed 1 October 2008.	
	592	2nd Restriction Requirement from US Serial No. 10/523,006 mailed 9 December 2009.	
	593	Response to 2nd Restriction Requirement from US Serial No. 10/523,006 filed 5 May 2010.	
	594	3rd Restriction Requirement from US Serial No. 10/523,006 mailed 3 August 2010.	
	595	Response to 3rd Restriction Requirement from US Serial No. 10/523,006 filed 1 February 2011.	
	596	Office Action (Non-Final) from US Serial No. 10/523,006 mailed 16 March 2011.	
	597	1st Office Action for European Application No. 03767480.1 dated 7 May 2007.	
	598	Reply to 1st Office Action for European Application No. 03767480.1 dated 19 March 2008.	
	599	2nd Office Action for European Application No. 03767480.1 dated 18 June 2008.	
	600	Reply to 2nd Office Action for European Application No. 03767480.1 dated 6 February 2009.	
	601	Intent to Grant for European Application No. 03767480.1 dated 30 March 2009.	
	602	Amendment after Intention to Grant for European Application No. 03767480.1 dated 22 July 2009.	
	603	Decision to Grant for European Application No. 03767480.1 dated 5 November 2009.	
	604	European Search Report for European Application No. 09 17 7376 dated 24 February 2011.	
	605	International Search Report for PCT Application No. PCT/DK03/00921 22 June 2004.	
	606	Restriction Requirement for US Serial No. 10/539,288 mailed 2 August 2010.	
	607	Response to Restriction Requirement for US Serial No. 10/539,288 filed 31 January 2011.	

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		Application Number	10/589,551
		Filing Date	September 17, 2007
		First Named Inventor	Per-Ola Freskgard
		Art Unit	1634
		Examiner Name	Frank Wei Min Lu
Sheet	31 of 36	Attorney Docket Number	16828.0012FPWO

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	608	Office Action (Non-Final) for US Serial No. 10/539,288 mailed 25 April 2011.	
	609	1st Office Action for European Application No. 03729909.6 mailed 17 May 2006.	
	610	Reply to 1st Office Action for European Application No. 03729909.6 mailed 9 March 2007.	
	611	2nd Office Action for European Application No. 03729909.6 mailed 22 September 2009.	
	612	Reply to 2nd Office Action for European Application No. 03729909.6 mailed 6 May 2010.	
	613	International Search Report for PCT Application No. PCT/DK03/00417 mailed 10 February 2004.	
	614	Restriction Requirement for US Serial No. 10/518,056 mailed 4 January 2008.	
	615	Response to Restriction Requirement for US Serial No. 10/518,056 filed 2 June 2008.	
	616	Office Action (Non-Final) for US Serial No. 10/518,056 mailed 8 October 2008.	
	617	Reply to Office Action for US Serial No. 10/518,056 filed 17 February 2009.	
	618	Office Action (Final Rejection) for US Serial No. 10/518,056 mailed 27 May 2009.	
	619	Notice of Appeal for US Serial No. 10/518,056 mailed 27 October 2009.	
	620	Amendment After Appeal for US Serial No. 10/518,056 filed 17 November 2009.	
	621	Advisory Action for US Serial No. 10/518,056 mailed 7 January 2010.	
	622	Request for Continued Examination and IDS for US Serial No. 10/518,056 filed 22 March 2010.	
	623	1st Office Action for European Application No. 04713515.7 mailed 19 October 2006.	
	624	Reply to 1st Office Action for European Application No. 04713515.7 mailed 20 August 2007.	
	625	2nd Office Action for European Application No. 04713515.7 mailed 31 March 2008.	
	626	Reply to 2nd Office Action for European Application No. 04713515.7 mailed 5 December 2008.	
	627	3rd Office Action for European Application No. 04713515.7 mailed 6 September 2010.	
	628	Reply to 3rd Office Action for European Application No. 04713515.7 mailed 21 June 2011.	
	629	International Search Report for PCT Application No. PCT/DK2004/000116 mailed 23 August 2004.	
	630	Office Action (Non-Final) for US Serial No. 10/545,795 mailed 31 March 2008.	
	631	Response filed for US Serial No. 10/545,795 filed 30 September 2008.	
	632	Office Action for US Serial No. 10/545,795 mailed 27 January 2009.	
	633	Notice of Appeal filed for US Serial No. 10/545,795 filed 27 July 2009.	
	634	Amendment after Appeal for US Serial No. 10/545,795 filed 28 September 2009.	

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	637	Office Action (Non-Final) for US Serial No. 10/545,795 mailed 16 November 2009.	
	638	Office Action (Non-Final) for US Serial No. 10/545,795 mailed 30 March 2010.	
	639	Office Action (Interview Summary) for US Serial No. 10/545,795 mailed 30 July 2010.	
	640	Response filed for US Serial No. 10/545,795 filed 30 August 2010.	
	641	Office Action (Final rejection) for US Serial No. 10/545,795 mailed 1 February 2011.	
	642	1st Office Action for European Application No. 04713517.3 dated 22 December 2006.	
	643	Reply to 1st Office Action for European Application No. 04713517.3 dated 19 October 2007.	
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	645	Reply to 2nd Office Action for European Application No. 04713517.3 dated 13 July 2009.	
	646	3rd Office Action for European Application No. 04713517.3 dated 14 February 2011.	
	647	International Search Report for International Application No. PCT/DK2004/000117 mailed 19 August 2004.	
	648	Restriction Requirement for US Serial No. 10/546,538 mailed 31 July 2008.	
	649	Response to Restriction Requirement for US Serial No. 10/546,538 filed 24 December 2008.	
	650	Office Action (Non-Final) for US Serial No. 10/546,538 mailed 10 June 2009.	
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	652	Office Action (Final Rejection) for US Serial No. 10/546,538 mailed 8 June 2010.	
	653	Response to Office Action (Notice of Appeal) for US Serial No. 10/546,538 filed 8 December 2010.	
	654	Office Action (Communication re: Appeal) for US Serial No. 10/546,538 mailed 20 July 2011.	
	655	1st Office Action for European Application No. 04722237.7 dated 2 March 2006.	
	656	Reply to 1st Office Action for European Application No. 04722237.7 dated 20 December 2006.	
	657	2nd Office Action for European Application No. 04722237.7 dated 28 February 2007.	
	658	Reply to 2nd Office Action for European Application No. 04722237.7 dated 19 October 2007.	
	659	Intent to Grant for European Application No. 04722237.7 dated 18 January 2008.	
	660	Amendment to Grant for European Application No. 04722237.7 dated 11 November 2008.	
	661	Decision to Grant for European Application No. 04722237.7 dated 5 February 2009.	
	662	European Search Report for European Application No. 09154197 mailed 15 September 2010.	

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	664	Restriction Requirement for US Serial No. 10/549,619 mailed 21 April 2008.	
	665	Response to Restriction Requirement for US Serial No. 10/549,619 filed 22 September 2008.	
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	667	Response to Office Action for US Serial No. 10/549,619 filed 26 October 2009.	
	668	Office Action (Interview Summary) for US Serial No. 10/549,619 mailed 3 March 2010.	
	669	Amendment filed for US Serial No. 10/549,619 filed 21 October 2010.	
	670	Notice of Allowance for US Serial No. 10/549,619 mailed 7 July 2010.	
	671	Amendment After Allowance for US Serial No. 10/549,619 filed 6 October 2010.	
	672	Issue Notification for US Serial No. 10/549,619 mailed 9 March 2011.	
	673	File Wrapper for Australian Application No. 2003273792.	
	674	Examination Report for Australian Application No. 2003273792 dated 6 May 2011.	
	675	Reply to 1st Office Action for European Application No. 03757752.5 dated 12 January 2006.	
	676	Amendment after ESP for European Application No. 03757752.5 dated 14 February 2006.	
	677	1st Office Action for European Application No. 03757752.5 dated 16 March 2006.	
	678	2nd Office Action for European Application No. 03757752.5 dated 15 February 2007.	
	679	Reply to 2nd Office Action for European Application No. 03757752.5 dated 15 August 2007.	
	680	Summons for European Application No. 03757752.5 dated 11 August 2008.	
	681	Letter for Oral Proceeding for European Application No. 03757752.5 dated 15 December 2008.	
	682	Telephone Summary for European Application No. 03757752.5 dated 23 December 2008.	
	683	Letter for Oral Proceeding for European Application No. 03757752.5 dated 2 January 2009.	
	684	Oral Proceedings for European Application No. 03757752.5 dated 8 January 2009.	
	685	3rd Office Action for European Application No. 03757752.5 dated 14 January 2009.	
	686	Reply to 3rd Office Action for European Application No. 03757752.5 dated 17 July 2009.	
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	688	Decision to Grant for European Application No. 03757752.5 dated 19 May 2011.	
	689	Request for Corrections for European Application No. 03757752.5 dated 9 November 2010.	
	690	Office Action for Japanese Application No. 2005-501801 dated 6 April 2010.	
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/589,551
		Filing Date	September 17, 2007
		First Named Inventor	Per-Ola Freskgard
		Art Unit	1634
		Examiner Name	Frank Wei Min Lu
Sheet	34 of 36	Attorney Docket Number	16828.0012FPWO

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	692	International Search Report for International Application No. PCT/DK03/00739 mailed 30 August 2004.	
	693	Restriction Requirement for US Serial No. 10/525,817 mailed 9 May 2007.	
	694	Response to Restriction Requirement for US Serial No. 10/525,817 filed 10 September 2007.	
	695	Restriction Requirement for US Serial No. 10/525,817 mailed 28 November 2007.	
	696	Response to Restriction Requirement for US Serial No. 10/525,817 filed 28 February 2008.	
	697	Restriction Requirement for US Serial No. 10/525,817 mailed 7 July 2009.	
	698	Response to Restriction Requirement for US Serial No. 10/525,817 filed 5 October 2009.	
	699	Office Action (Non-Final) for US Serial No. 10/525,817 mailed 1 April 2010.	
	700	Supplemental Office Action for US Serial No. 10/525,817 mailed 5 April 2010.	
	701	Response filed for US Serial No. 10/525,817 filed 27 July 2010.	
	702	Office Action (Non-Final) for US Serial No. 10/525,817 mailed 5 January 2011.	
	703	Office Action (Interview Summary) for US Serial No. 10/525,817 mailed 1 July 2011.	
	704	Response filed for US Serial No. 10/525,817 filed 5 July 2011.	
	705	Restriction Requirement for US Serial No. 11/402,957 mailed 25 June 2008.	
	706	Response to Restriction Requirement for US Serial No. 11/402,957 filed 25 August 2008.	
	707	Office Action (Non-Final) for US Serial No. 11/402,957 mailed 28 November 2008.	
	708	Response filed for US Serial No. 11/402,957 filed 15 May 2009.	
	709	Office Action (Non-Final) for US Serial No. 11/402,957 mailed 6 July 2009.	
	710	Response filed for US Serial No. 11/402,957 filed 7 December 2009.	
	711	Office Action (Final Rejection) for US Serial No. 11/402,957 mailed 16 February 2010.	
	712	Response filed for US Serial No. 11/402,957 filed 28 July 2010.	
	713	Notice of Appeal filed for US Serial No. 11/402,957 filed 16 August 2010.	
	714	Notice of Allowance for US Serial No. 11/402,957 mailed 2 September 2010.	
	715	Request for Continued Examination filed for US Serial No. 11/402,957 filed 2 December 2010.	
	716	Second Notice of Allowance for US Serial No. 11/402,957 mailed 29 April 2011.	
	717	1st Office Action for European Application No. 04762850.8 dated 6 December 2006.	
	718	Reply to 1st Office Action for European Application No. 04762850.8 dated 18 October 2007.	
	719	2nd Office Action for European Application No. 04762850.8 dated 24 January 2008.	
	720	Reply to 2nd Office Action for European Application No. 04762850.8 dated 2 September 2008.	
	721	Intent to Grant for European Application No. 04762850.8 dated 10 December 2008.	
	722	Decision to Grant for European Application No. 04762850.8 dated 8 October 2009.	

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		Filing Date	September 17, 2007
		First Named Inventor	Per-Ola Freskgard
		Art Unit	1634
		Examiner Name	Frank Wei Min Lu
Sheet	35 of 36	Attorney Docket Number	16828.0012FPWO

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	723	Amendment after Grant for European Application No. 04762850.8 dated 17 July 2009.	
	724	International Search Report for PCT/DK2004/000630 mailed 14 February 2005.	
	725	Restriction Requirement for US Serial No. 10/572,644 dated 4 February 2009.	
	726	Response to Restriction Requirement for US Serial No. 10/572,644 dated 29 July 2009.	
	727	Restriction Requirement for US Serial No. 10/572,644 dated 21 July 2010.	
	728	Response to Restriction Requirement for US Serial No. 10/572,644 filed 19 January 2011.	
	729	Office Action (Non-Final) for US Serial No. 10/572,644 dated 29 October 2009.	
	730	Response to Office Action for US Serial No. 10/572,644 filed 28 April 2010.	
	731	Office Action (Non-Final) for US Serial No. 10/572,644 dated 31 March 2011.	
	732	1st Office Action for European Application No. 05715120.1 dated 12 April 2007.	
	733	Reply to 1st Office Action for European Application No. 05715120.1 dated 1 February 2008.	
	734	2nd Office Action for European Application No. 05715120.1 dated 25 March 2008.	
	735	Reply to 2nd Office Action for European Application No. 05715120.1 dated 9 January 2009.	
	736	Intent to Grant for European Application No. 05715120.1 dated 7 May 2009.	
	737	Amendment after Grant for European Application No. 05715120.1 dated 3 September 2009.	
	738	Decision to Grant for European Application No. 05715120.1 dated 1 October 2009.	
	739	International Search Report for International Application No. PCT/DK2005/000199 mailed 23 January 2006.	
	740	Office Action for US Serial No. 10/593,868 mailed 30 March 2009.	
	741	Response to Office Action for US Serial No. 10/593,868 filed 28 July 2009.	
	742	Notice of Allowance for US Serial No. 10/593,868 mailed 16 November 2009.	
	743	Amendment after Allowance for US Serial No. 10/593,868 filed 16 February 2010.	
	744	Issue Notification for US Serial No. 10/593,868 mailed 7 April 2010.	
	745	1st Office Action for European Application No. 05700655.3 dated 19 June 2007.	
	746	Reply to 1st Office Action for European Application No. 05700655.3 dated 11 April 2008.	
	747	2nd Office Action for European Application No. 05700655.3 dated 12 September 2008.	
	748	Reply to 2nd Office Action for European Application No. 05700655.3 dated 9 July 2009.	
	749	3rd Office Action for European Application No. 05700655.3 dated 12 August 2009.	
	750	Reply to 3rd Office Action for European Application No. 05700655.3 dated 9 February 2010.	
	751	Intent to Grant for European Application No. 05700655.3 dated 31 March 2010.	

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	752	Amendment after Grant for European Application No. 05700655.3 dated 11 November 2010.	
	753	Decision to Grant for European Application No. 05700655.3 dated 2 December 2010.	
	754	International Search Report for International Application No. PCT/DK2005/000106 mailed 12 September 2005.	
	755	Restriction Requirement for US Serial No. 10/589,551 mailed 7 April 2011.	
	756	1st Office Action for European Application No. 06818144.5 dated 11 December 2008.	
	757	Reply to 1st Office Action for European Application No. 06818144.5 dated 30 October 2009.	
	758	Intent to Grant for European Application No. 06818144.5 dated 23 February 2010.	
	759	Amendment after Grant for European Application No. 06818144.5 dated 7 October 2010.	
	760	Decision to Grant European Application No. 06818144.5 dated 5 November 2010.	
	761	European Search Report for European Application No. 10 19 2716 mailed 24 May 2011.	
	762	Invitation to Identify Subject Matter for European Application No. 10 192 717.6 dated 1 June 2011.	
	763	International Search Report for International Application No. PCT/DK2006/000685 mailed 14 June 2007.	
	764	Communication pursuant to Rule 161(1) and 162 for European Application No. 09765460.2 dated 14 March 2011.	
	765	Response to Rule 161(1) and 162 for European Application No. 09765460.2 dated 18 April 2011.	
	766	International Search Report for International Application No. PCT/DK2009/050129 mailed 21 August 2009.	
	767	International Search Report for International Application No. PCT/DK2006/000685 mailed 14 June 2007.	
	768	Communication pursuant to Rule 161(1) and 162 for European Application No. 09765460.2 dated 14 March 2011.	
	769	Response to Rule 161(1) and 162 for European Application No. 09765460.2 dated 18 April 2011.	
	770	International Search Report for International Application No. PCT/DK2009/050129 mailed 21 August 2009.	
	771	Annex I: Vipergen Technology Paper – The YoctoReactor drug discovery technology platform. 2 pages.	
	772	Annex II: Vipergen Technology Paper – The YoctoReactor drug discovery technology platform. 2 pages. August 2008.	

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